

**National Functional Guidelines Report #03**

Lab CHEM(Chemtech Consulting Group) SDG MF4Q19 Case 41345 Contract EPW09038 Region 6 DDTID 123302 SOW ISM01.2

**Data Review Reports**

Blanks

<b>Blanks</b>	<b>ICP_AES</b>
ND05	The following samples have analyte results greater than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.  MF4Q22S, MF4Q17, MF4Q29, MF4Q21, MF4Q25, LCS, MF4Q19, MF4Q26, MF4Q30, MF4Q31  Vanadium MF4Q22S , MF4Q17 , MF4Q29 , MF4Q21 , MF4Q25 , LCS , MF4Q19 , MF4Q26 , MF4Q30 , MF4Q31
<b>Blanks</b>	<b>ICP_AES</b>
NE05	The following samples have analyte results greater than CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.  MF4Q13, MF4Q22S, MF4Q20, MF4Q24, MF4Q29, LCS, MF4Q19  Lead MF4Q13 , MF4Q22S , MF4Q20 , MF4Q24 , MF4Q29 , LCS , MF4Q19
<b>Blanks</b>	<b>ICP_AES</b>
ND15	The following samples have analyte results greater than or equal to MDLs. The associated ICB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.  MF4Q60, MF4Q13, MF4Q22L, MF4Q22, MF4Q22S, MF4Q17, MF4Q20, MF4Q24, MF4Q29, MF4Q58, MF4Q59, MF4Q22D, MF4Q21, MF4Q25, LCS, MF4Q19, MF4Q23, MF4Q26, MF4Q27, MF4Q28, MF4Q30, MF4Q31  Chromium MF4Q60 , MF4Q13 , MF4Q22L , MF4Q22 , MF4Q22S , MF4Q17 , MF4Q20 , MF4Q24 , MF4Q29 , MF4Q58 , MF4Q59 , MF4Q22D , MF4Q21 , MF4Q25 , LCS , MF4Q19 , MF4Q23 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30 , MF4Q31
<b>Blanks</b>	<b>ICP_AES</b>
NE04	The following samples have analyte results greater than or equal to MDLs but less than or equal to CRQLs. The associated preparation blank analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.  MF4Q31, MF4Q60, MF4Q22, MF4Q17, MF4Q58, MF4Q59, MF4Q22D, MF4Q21, MF4Q25, MF4Q23, MF4Q26, MF4Q27, MF4Q28, MF4Q30  Lead MF4Q31 , MF4Q60 , MF4Q22 , MF4Q17 , MF4Q58 , MF4Q59 , MF4Q22D , MF4Q21 , MF4Q25 , MF4Q23 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30
<b>Blanks</b>	<b>ICP_AES</b>
NCB05	The following samples have no detected analytes. The associated ICB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.  PBW  Chromium PBW
<b>Blanks</b>	<b>ICP_AES</b>
ND06	The following samples have analyte results greater than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Use professional judgment to qualify detected and nondetected analytes.  MF4Q22S, MF4Q17, MF4Q29, MF4Q21, MF4Q25, LCS, MF4Q19, MF4Q26, MF4Q30, MF4Q31  Vanadium MF4Q22S , MF4Q17 , MF4Q29 , MF4Q21 , MF4Q25 , LCS , MF4Q19 , MF4Q26 , MF4Q30 , MF4Q31  Aluminum MF4Q22S , LCS

## National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) SDG MF4Q19 Case 41345 Contract EPW09038 Region 6 DDTID 123302 SOW ISM01.2

### *Data Review Reports*

Blanks

Blanks	ICP_AES
	Iron MF4Q22S , LCS
Blanks	ICP_AES
ND03	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated ICB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated to CRQLs.
	MF4Q60, MF4Q13, MF4Q22L, MF4Q22, MF4Q20, MF4Q24, MF4Q58, MF4Q59, MF4Q22D, MF4Q23, MF4Q27, MF4Q28
	Vanadium MF4Q60 , MF4Q13 , MF4Q22L , MF4Q22 , MF4Q20 , MF4Q24 , MF4Q58 , MF4Q59 , MF4Q22D , MF4Q23 , MF4Q27 , MF4Q28
Blanks	ICP_AES
NCB06	The following samples have no detected analytes. The associated CCB analyte results are less than or equal to -MDLs but greater than or equal to -CRQLs. Use professional judgment to qualify detected and nondetected analytes.
	PBW, MF4Q60, MF4Q13, MF4Q22L, MF4Q22, MF4Q17, MF4Q20, MF4Q24, MF4Q29, MF4Q58, MF4Q59, MF4Q22D, MF4Q21, MF4Q25, MF4Q19, MF4Q23, MF4Q26, MF4Q27, MF4Q28, MF4Q30, MF4Q31
	Chromium PBW
	Silver MF4Q60 , MF4Q13 , MF4Q22L , MF4Q22 , MF4Q17 , MF4Q20 , MF4Q24 , MF4Q29 , MF4Q58 , MF4Q59 , MF4Q22D , MF4Q21 , MF4Q25 , PBW , MF4Q19 , MF4Q23 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30 , MF4Q31
Blanks	ICP_AES
ND04	The following samples have analyte results greater than or equal to MDLs but less than CRQLs. The associated CCB analyte results are greater than or equal to MDLs but less than or equal to CRQLs. Detected analytes are qualified U. Nondetected analytes are not qualified. Sample results are elevated at CRQLs.
	MF4Q60, MF4Q13, MF4Q22L, MF4Q22, MF4Q20, MF4Q24, MF4Q58, MF4Q59, MF4Q22D, MF4Q23, MF4Q27, MF4Q28, MF4Q17, MF4Q21, MF4Q25, MF4Q19, MF4Q26, MF4Q30, MF4Q31, PBW
	Vanadium MF4Q60 , MF4Q13 , MF4Q22L , MF4Q22 , MF4Q20 , MF4Q24 , MF4Q58 , MF4Q59 , MF4Q22D , MF4Q23 , MF4Q27 , MF4Q28
	Chromium MF4Q22L
	Aluminum MF4Q13 , MF4Q17 , MF4Q20 , MF4Q58
	Iron MF4Q60 , MF4Q13 , MF4Q17 , MF4Q20 , MF4Q24 , MF4Q58 , MF4Q59 , MF4Q21 , MF4Q25 , MF4Q19 , MF4Q23 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30 , MF4Q31
	Lead MF4Q60 , MF4Q22L , MF4Q22 , MF4Q17 , MF4Q58 , MF4Q59 , MF4Q22D , MF4Q21 , MF4Q25 , PBW , MF4Q23 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30 , MF4Q31

**National Functional Guidelines Report #03**

Lab CHEM(Chemtech Consulting Group) SDG MF4Q19 Case 41345 Contract EPW09038 Region 6 DDTID 123302 SOW ISM01.2

**Data Review Reports**

## Detection Limit

<b>Detection Limit</b>	<b>ICP_AES</b>
NDL1	The following samples have results greater than or equal to MDLs but less than CRQLs. Detected analytes are qualified J. MF4Q60, MF4Q13, MF4Q22L, MF4Q22, MF4Q20, MF4Q24, MF4Q58, MF4Q59, MF4Q22D, MF4Q23, MF4Q27, MF4Q28, MF4Q26, MF4Q30, MF4Q17, MF4Q29, MF4Q21, MF4Q19, MF4Q31, MF4Q25, PBW Vanadium MF4Q60 , MF4Q13 , MF4Q22L , MF4Q22 , MF4Q20 , MF4Q24 , MF4Q58 , MF4Q59 , MF4Q22D , MF4Q23 , MF4Q27 , MF4Q28
	Arsenic MF4Q60 , MF4Q13 , MF4Q22 , MF4Q20 , MF4Q24 , MF4Q58 , MF4Q59 , MF4Q22D , MF4Q23 , MF4Q26 , MF4Q27 , MF4Q30
	Chromium MF4Q22L
	Nickel MF4Q13 , MF4Q22 , MF4Q17 , MF4Q20 , MF4Q24 , MF4Q29 , MF4Q58 , MF4Q59 , MF4Q22D , MF4Q21 , MF4Q19 , MF4Q23 , MF4Q26 , MF4Q27
	Potassium MF4Q22L , MF4Q21
	Copper MF4Q60
	Lead MF4Q31 , MF4Q60 , MF4Q22L , MF4Q22 , MF4Q17 , MF4Q58 , MF4Q59 , MF4Q22D , MF4Q21 , MF4Q25 , PBW , MF4Q23 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30
	Selenium MF4Q31 , MF4Q60 , MF4Q13 , MF4Q22 , MF4Q17 , MF4Q20 , MF4Q24 , MF4Q29 , MF4Q58 , MF4Q59 , MF4Q22D , MF4Q21 , MF4Q25 , MF4Q19 , MF4Q23 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30
	Barium MF4Q60 , MF4Q13 , MF4Q22L , MF4Q22 , MF4Q17 , MF4Q20 , MF4Q24 , MF4Q29 , MF4Q58 , MF4Q59 , MF4Q22D , MF4Q21 , MF4Q25 , MF4Q19 , MF4Q23 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30 , MF4Q31
	Zinc MF4Q31 , MF4Q60 , MF4Q22L , MF4Q22 , MF4Q17 , MF4Q22D , MF4Q21 , MF4Q25 , MF4Q23 , MF4Q28 , MF4Q30
	Aluminum MF4Q13 , MF4Q17 , MF4Q20 , MF4Q58
	Cadmium MF4Q20
	Thallium MF4Q13
	Iron MF4Q31 , MF4Q60 , MF4Q13 , MF4Q17 , MF4Q20 , MF4Q24 , MF4Q58 , MF4Q59 , MF4Q21 , MF4Q25 , MF4Q19 , MF4Q23 , MF4Q26 , MF4Q27 , MF4Q28 , MF4Q30
	Manganese MF4Q31 , MF4Q60 , MF4Q17 , MF4Q20 , MF4Q24 , MF4Q29 , MF4Q58 , MF4Q59 , MF4Q22D , MF4Q21 , MF4Q19 , MF4Q23 , MF4Q26 , MF4Q27 , MF4Q30

**National Functional Guidelines Report #03****Lab** CHEM(Chemtech Consulting Group) **SDG** MF4Q19 **Case** 41345 **Contract** EPW09038 **Region** 6 **DDTID** 123302 **SOW** ISM01.2***Data Review Reports***

## Matrix Spikes

Matrix Spikes	ICP_AES
NG11	The following Matrix Spike samples have percent recoveries in the range of 30-74% and post-digestion spike samples have percent recoveries greater than or equal to 75%. Detected analytes with results greater than or equal to MDLs are qualified J. Nondetected analytes are qualified UJ. MF4Q19, MF4Q23, MF4Q26, MF4Q27, MF4Q28, MF4Q30, MF4Q31, MF4Q60, MF4Q13, MF4Q22, MF4Q17, MF4Q20, MF4Q24, MF4Q29, MF4Q58, MF4Q59, MF4Q21, MF4Q25
	Beryllium MF4Q22S

## National Functional Guidelines Report #03

Lab CHEM(Chemtech Consulting Group) SDG MF4Q19 Case 41345 Contract EPW09038 Region 6 DDTID 123302 SOW ISM01.2

### *Data Review Reports*

#### Serial Dilution

Serial Dilution	ICP_AES
NL031	The following ICP-AES Serial Dilution (SD) samples have percent difference (%D) greater than 10% and initial sample results are greater than 50xMDLs. The detected analytes in samples with results greater than or equal to MDLs are qualified J. Nondetected analytes in samples are qualified UI.
	MF4Q19, MF4Q23, MF4Q26, MF4Q27, MF4Q28, MF4Q30, MF4Q31, MF4Q60, MF4Q13, MF4Q22, MF4Q17, MF4Q20, MF4Q24, MF4Q29, MF4Q58, MF4Q59, MF4Q21, MF4Q25
	Vanadium MF4Q22L
	Chromium MF4Q22L
	Potassium MF4Q22L